

Serial No. 10/607,560
Submission dated November 8, 2006
Reply to Office Action of August 9, 2006

Docket No. P-0401

Listing of Claims

1. (Currently Amended) An electronic device, comprising:
 - a sound generator having a first plurality of holes;
 - a housing having a second plurality of holes; and
 - a sound controller between the sound generator and housing, wherein the sound controller includes a leakage member having a third plurality of holes for leaking sound traveling from the holes in the sound generator to the holes in the housing, the third plurality of holes leaking the sound into an interior portion of the housing to prevent the leaked sound from reaching an ear of a user.
2. (Previously Presented) The electronic device of claim 1, wherein the sound controller controls the discharge of sound through the holes in the housing based on a predetermined sound leakage pattern.
3. (Original) The electronic device of claim 2, wherein the predetermined sound leakage pattern increases uniformity of output sound volume within a predetermined distance range from the device.

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4. (Currently Amended) The electronic device of claim 1, wherein a portion of the holes in the sound generator leakage member are aligned with the holes in the housing and wherein other holes in the sound generator housing are blocked by the housing leakage member.

5. (Previously Presented) The electronic device of claim 1, wherein the holes in the leakage member are arranged relative to the holes in the housing to leak sound in a circumferential direction.

6. (Previously Presented) The electronic device of claim 1, wherein the holes in the leakage member are arranged at regular intervals in a circumferential direction.

7. (Previously Presented) The electronic device of claim 1, wherein the leakage member is cylindrical in shape and wherein the holes in the leakage member are in a circumferential direction.

8. (Currently Amended) The electronic device of claim 1, wherein the holes in the housing and the holes in the sound generator leakage member are arranged in a same pattern.

9. (Original) The electronic device of claim 8, wherein said pattern is a circular pattern.

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10. (Previously Presented) The electronic device of claim 1, wherein a spacing between the sound generator and housing corresponds to a thickness of the leakage member.

11-12 (Canceled)

13. (Previously Presented) The electronic device of claim 1, wherein the holes in the sound generator are coincident with the holes in the housing.

14. (Original) The electronic device of claim 1, wherein the electronic device is a communications terminal.

15. (Original) The electronic device of claim 14, wherein the communications terminal is a mobile communications terminal.

16. (Currently Amended) A communications terminal, comprising:
a housing having a first plurality of holes;
a receiver within the housing to output sound through a second plurality of holes;
and

a sound controller between the receiver and housing, wherein the sound controller includes a leakage member having a third plurality of holes to leak sound traveling from the holes in the receiver to the holes in the housing, the third plurality of holes leaking the sound into an interior portion of the housing to prevent the leaked sound from reaching an ear of a user.

17. (Previously Presented) The terminal of claim 16, wherein the sound controller controls the discharge of sound through the holes in the housing based on a predetermined sound leakage pattern.

18. (Original) The terminal of claim 17, wherein the predetermined sound leakage pattern increases uniformity of output sound volume within a predetermined distance range from the terminal.

19. (Currently Amended) The terminal of claim 16, wherein a portion of the holes in the receiver leakage member are aligned with the holes in the housing and wherein other holes in the receiver housing are blocked by the housing leakage member.

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20. (Previously Presented) The terminal of claim 16, wherein the holes in the leakage member are arranged relative to the holes in the housing to leak sound in a circumferential direction.
21. (Previously Presented) The terminal of claim 16, wherein the holes in the leakage member are arranged at regular intervals in a circumferential direction.
22. (Previously Presented) The terminal of claim 16, wherein the leakage member is cylindrical in shape and wherein the holes in the leakage member are in a circumferential direction.
23. (Currently Amended) The terminal of claim 16, wherein the holes in the housing and the holes in the receiver leakage member are arranged in a same pattern.
24. (Original) The terminal of claim 23, wherein said pattern is a circular pattern.
25. (Previously Presented) The terminal of claim 16, wherein a spacing between the receiver and housing corresponds to a thickness of the leakage member.

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26-27 (Canceled)

28. (Previously Presented) The terminal of claim 16, wherein the holes in the receiver are coincident with the holes in the housing.

29-34 (Canceled).

35. (Currently Amended) A receiver unit of a terminal device comprising:
a main body including an outer case forming an outer portion and an inner case coupled with the outer case and having a plurality of sound discharge holes;
a receiver disposed inside the main body and generating a sound; and
a sound leakage member unit disposed between the receiver and the sound discharge holes of the inner case and leaking a portion of the sound generated from the receiver before being discharged through the sound discharge holes, wherein said portion of the sound is leaked into an interior portion of the main body to prevent the leaked sound from reaching an ear of a user.

36. (Original) The receiver unit of claim 35, wherein a plurality of leakage holes are formed between a front side of the receiver and an inner side of the inner case in order to leak a sound therethrough in a circumferential direction.

37. (Currently Amended) The receiver unit of claim 35, wherein the sound leakage member unit includes leakage holes formed at regular intervals in a circumferential direction of the lower housing of the receiver, and a plurality of protrusions formed protruded with a certain width.

38. (Currently Amended) The receiver unit of claim 35, wherein the sound leakage member unit of the receiver unit has a certain width and is formed as a cylindrical type with a plurality of leakage holes in a circumferential direction, and both sides of which are respectively attached at a lower housing of the receiver and the inner case.

39. (Previously Presented) The electronic device of claim 1, wherein the holes in the leakage member are arranged at least substantially perpendicular to the holes in the housing or sound generator.

40. (Previously Presented) The electronic device of claim 39, wherein the holes in the leakage member are arranged at least substantially perpendicular to the holes in the housing and sound generator.

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41. (Previously Presented) The electronic device of claim 40, wherein the holes in the housing are aligned with the holes in the sound generator.

42. (Previously Presented) The electronic device of claim 39, wherein the holes in the leakage member are arranged to reduce a change in volume of the sound passing though the second plurality of holes.

43. (Previously Presented) The terminal of claim 16, wherein the holes in the leakage member are arranged at least substantially perpendicular to the holes in the housing or receiver.

44. (Previously Presented) The terminal of claim 43, wherein the holes in the leakage member are arranged at least substantially perpendicular to the holes in the housing and receiver.

45. (Previously Presented) The electronic device of claim 43, wherein the holes in the housing are aligned with the holes in the sound generator.

46. (Previously Presented) The electronic device of claim 43, wherein the holes in the leakage member are arranged to reduce a change in volume of the sound passing though the second plurality of holes.

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47. (New) The electronic device of claim 1, wherein the leakage member is disposed as a separate member between the sound generator and housing.

48. (New) The electronic device of claim 1, wherein the leakage member includes a ring containing the third plurality of holes.

49. (New) The electronic device of claim 1, wherein the leakage member is formed integrally with and protrudes from the sound generator.